

SEMINOLE COUNTY GOVERNMENT AGENDA MEMORANDUM

SUBJECT: Amendments to PS-1074-06/TRJ - Consultant Services Agreement for Geotechnical Services and Construction Material Testing and Inspection with Ardaman & Associates, Inc.; Nodarse & Associates, Inc.; and Professional Service Industries, Inc.

DEPARTMENT: Administrative Services

DIVISION: Purchasing and Contracts

AUTHORIZED BY: Frank Raymond

CONTACT: Robert Bradley

EXT: 7113

MOTION/RECOMMENDATION:

Approve Amendments to PS-1074-06/TRJ with Ardaman & Associates, Inc. of Orlando, Florida; Nodarse & Associates, Inc. of Winter Park, Florida; and Professional Service Industries, (PSI) Inc. of Orlando, Florida, to add additional Pay Items as identified in the revised Exhibit A included within the Amendment for each Consultant. In addition, approve the increased rates as requested by Nodarse & Associates, Inc. of Winter Park, Florida, included in the revised Exhibit A included within the Amendment for Nodarse & Associates, Inc.

County-wide

Ray Hooper

BACKGROUND:

PS-1074-06/TRJ provides soil and materials testing for various projects within Seminole County. On December 12, 2006, the Board awarded this work order based Master Agreement to Ardaman & Associates, Inc. of Orlando, Florida; Nodarse & Associates, Inc. of Winter Park, Florida; and Professional Service Industries, Inc. of Orlando, Florida.

Amendments under this Master Agreement will become the First Amendments for each Consultant, and will provide for the addition of Pay Items which consist of various unit costs associated with drill rig mobilization for testing purposes (refer to Exhibit A, section "Geotechnical Investigations and Soil Testing", item numbers 39-42). These Pay Items were not included within the original Master Agreement. Public Works Department - Engineering Division has reviewed and agreed with the rate increase for Nodarse and Associates, Inc.

Authorization for performance of services by the Contractor under this agreement shall be in the form of written Work Orders issued and executed by the County and signed by the Contractor. The work and dollar amount for each work order shall be based on the project and will be negotiated on an as-needed basis.

STAFF RECOMMENDATION:

Staff recommends that the Board approve Amendments to PS-1074-06/TRJ with Ardaman & Associates, Inc. of Orlando, Florida; Nodarse & Associates, Inc. of Winter Park, Florida; and Professional Service Industries, (PSI) Inc. of Orlando, Florida, to add additional Pay Items as identified in the revised Exhibit A included within the Amendment for each Consultant. In addition, approve the increased rates as requested by Nodarse & Associates, Inc. of Winter Park, Florida, included in the revised Exhibit A included within the Amendment for Nodarse &

Associates, Inc.

ATTACHMENTS:

1. PS-1074-06_TRJ Amendment #1 with Ardaman
2. PS-1074-06_TRJ Amendment #1 with Nodarse
3. PS-1074-06_TRJ Amendment #1 with PSI

Additionally Reviewed By:

☒ County Attorney Review (Ann Colby)

**FIRST AMENDMENT TO CONSULTANT SERVICES AGREEMENT (PS-1074-06/TRJ)
PROFESSIONAL GEOTECHNICAL SERVICES AND
CONSTRUCTION MATERIAL TESTING AND INSPECTION**

THIS FIRST AMENDMENT is made and entered into this _____ day of _____, 20____ and is to that certain Agreement made and entered into on the 1st day of February, 2007, between **ARDAMAN & ASSOCIATES, INC.**, whose address is 8008 S. Orange Avenue, Orlando, Florida 32809, hereinafter referred to as "CONSULTANT", and **SEMINOLE COUNTY**, a political subdivision of the State of Florida, whose address is Seminole County Services Building, 1101 East First Street, Sanford, Florida 32771, hereinafter referred to as "COUNTY".

W I T N E S S E T H:

WHEREAS, CONSULTANT and COUNTY entered into the above referenced Agreement on February 1, 2007 for professional geotechnical services and construction material testing and inspection; and

WHEREAS, the parties desire to amend the Agreement so as to enable both parties to continue to enjoy the mutual benefits it provides; and

WHEREAS, Section 23 of the Agreement provides that any amendments shall be valid only when expressed in writing and duly signed by the parties,

NOW, THEREFORE, in consideration of the mutual understandings and agreements contained herein, the parties agree to amend the Agreement as follows:

1. Section 5 of the Agreement is amended to read:

SECTION 5. COMPENSATION. The COUNTY agrees to compensate the CONSULTANT for the professional services called for under this Agreement on either a "Fixed Fee Basis" or on a "Time Basis Method". If a Work Order is issued under a "Time Basis Method", then CONSULTANT shall be compensated in accordance with the rate schedule attached as Exhibit "A". If a Work Order is issued for a "Fixed Fee Basis", then

the applicable Work Order Fixed Fee amount shall include any and all reimbursable expense.

2. Exhibit "A" of the Agreement is deleted and replaced by the new Exhibit "A" attached hereto.

3. Except as herein modified, all terms and conditions of the Agreement shall remain in full force and effect for the term of the Agreement, as originally set forth in said Agreement.

IN WITNESS WHEREOF, the parties hereto have executed this instrument for the purpose herein expressed.

ATTEST:

ARDAMAN & ASSOCIATES, INC.

NADIM F. FULEIHAN
Sr. Vice-President

By: _____
CHARLES H. CUNNINGHAM
Project Manager

(CORPORATE SEAL)

Date: _____

ATTEST:

BOARD OF COUNTY COMMISSIONERS
SEMINOLE COUNTY, FLORIDA

MARYANNE MORSE
Clerk to the Board of
County Commissioners of
Seminole County, Florida.

By: _____
BRENDA CAREY, Chairman

Date: _____

For the use and reliance
of Seminole County only.

As authorized for execution
by the Board of County Commissioners
at their _____, 20____
regular meeting.

Approved as to form and
legal sufficiency.

County Attorney

AEC/lpk

2/26/08

P:\Users\Legal Secretary CSB\Purchasing 2008\Agreements\PS-1074 1am Ardaman.doc

Attachment:

Exhibit "A" - Rate Schedule

**Professional & Technical Services
Hourly Rates**

	Classification	Hourly Rates
1	Principal Engineer/Scientist	\$ 209.20
2	Registered Senior Engineer/Scientist	\$ 148.53
3	Project Engineer/Scientist II	\$ 125.07
4	Project Engineer/Scientist I	\$ 89.22
5	Staff Engineer/Scientist	\$ 79.65
6	Engineering/Scientific Associate	\$ 72.05
7	Senior Engineering Technician	\$ 53.98
8	Engineering Technician	\$ 40.46
9	Draftsman	\$ 51.61
10	Technical Secretary	\$ 43.23

ARDAMAN & ASSOCIATES, INC.
FEE SCHEDULE

Labor Category	Raw Hourly Rate (average)	Fringe & Overhead %	Fringe & Overhead Amount	Loaded Hourly Rate	Profit %	Profit Amount	Billing Rate
Principal Engineer/Scientist	72.59	62 %	117.59190	188.18	10 %	19.02	209.20
Senior Engineer/Scientist	51.54	62 %	83.49	135.03	10%	13.50	148.53
Project Engineer/Scientist II	43.40	62 %	70.31	113.70	10%	11.37	125.07
Project Engineer/Scientist I	30.96	62 %	50.15	81.11	10%	8.11	89.22
Staff Engineer/Scientist	27.64	62 %	44.77	72.41	10%	7.24	79.65
Engineering/Scientific Associate	25.00	62 %	40.50	65.50	10%	6.55	72.05
Senior Engineering Technician	18.73	62 %	30.34	49.07	10%	4.91	53.98
Engineering Technician	14.04	62 %	22.74	36.78	10%	3.68	40.46
Draftsman	17.91	62 %	29.01	46.92	10 %	4.69	51.61
Technical Secretary	15.00	62 %	24.30	39.30	10 %	3.93	43.23

Scope of Services
Professional Engineering Services
for Soil and Materials Testing

Price Schedule

Specific services shall include, but not limited to sampling and testing of soils, concrete, asphalt and various other constructions materials.

#	Item	Cost per Unit
1	In-Place density tests (Minimum 3 per trip)	\$ 26.00
2	Standard or modified proctors	\$ 90.00
3	Limerock Bearing Ratio tests (3 points)	\$ 335.00
4	Compressive strength of concrete cylinders (4 per set)	\$ 70.00
5	Compressive strength of soil-cement pills (4 per set)	\$ 90.00
6	Asphalt extraction, gradation, & Marshall stability tests	\$ 275.00
7	Core drilling & soils analysis	\$ Per Job

Steel Inspection

	Inspection	Price per Unit
1	Inspection of Welds & Bolt Torquing	
	A) At Plant	\$ 72.05
	B) At Job Site	
	1. One (1) Man Inspection Crew	\$ 72.05
	2. Two (2) Men Inspection Crew	\$ 126.03
2	Reinforcing Steel Inspection	\$ 72.05
3	Nondestructive Testing of Steel & Connections	\$ 72.05

Geotechnical Investigations & Soil Testing

#	Item	Price per Unit	Unit
1	Standard Penetration Test Borings (ASTM D-1586) (minimum 50 feet per job)		
	A) 0-50 foot depth interval	\$ 12.50	lin-ft
	B) 50-100 foot depth interval	\$ 15.00	lin-ft
	C) 100-125 foot depth interval	\$ 19.50	lin-ft
	D) 125-150 foot depth interval	\$ 25.00	lin-ft
2	Auger Borings (minimum 100 feet per job)	\$ 9.50	lin-ft
3	Manual Auger Borings	\$ 9.50	lin-ft
4	Drill Service from Floating Platform	per job	
5	Rock Coring	\$ 40.00	lin-ft
6	Installation of Steel Casing	\$ 10.00	lin-ft
7	Ground Penetrating Radar (not including engineer)	\$ 1,500.00	day
8	Cone Penetrometer Soundings	\$ 12.00	lin-ft
9	Dilatometer Soundings (per test, min. 10 tests/Sounding)	\$ 125.00	ea
10	Liquid Limit (LL) - Plastic Limit (PL)	\$ 97.00	set
	Shrinkage Limit (SL)	\$ 75.00	ea
11	California Bearing Ratio	\$ 330.00	ea
12	Consolidation		
	A) Consolidation with Reload	\$ 525.00	ea
13	Corrosion Resistance (pH and R)	\$ 140.00	set
14	Field Density Tests (minimum 3 tests per trip)	\$ 26.00	ea
15	Florida Bearing Value (FBCV)	\$ 45.00	ea
16	Florida Bearing Value Determination of Blend Proportions	150.00	ea
17	Grain Size:		
	A) Hydrometer Analysis	\$ 96.00	ea.
	B) Sieve Analysis (Wash No. 200 Sieve)	\$ 43.00	ea
18	Ground Penetrating Radar (not including engineer)	\$ 1,500.00	ea.
19	Limerock Bearing Ratio (LBR) (3 point)	\$ 335.00	ea
20	Limerock Bearing Ratio (LBR) (5 point)	360.00	ea
21	Moisture Content	\$ 12.00	ea
22	Moisture Density Test (Standard or Modified Proctor)	\$ 90.00	ea

EXHIBIT A

23	Monitor Well Installation - 2" or 4" PVC(not including materials)	\$ 163.00	hour
24	Muck Probing		
	2 man crew	\$ 94.44	hour
	3 man crew	\$ 134.90	hour
25	Organic Content Determination	\$ 28.00	ea
26	pH	\$ 6.50	ea
27	Permeability Tests - Field (15', 2 depths) (Excluding auger borings & vertical permeability)	\$ 350.00	ea
28	Permeability Tests - Laboratory		
	Granular Soil	\$ 129.00	ea
	Cohesive Soil	\$ 218.00	ea.
29	Soil-Cement, Field Testing & Observation	53.98	hour
30	Soil-Cement Laboratory Design Mixes (FOB Laboratory)	450.00	ea
31	Soil Plate Load Test (ASTM)	400.00	ea
32	Sepecific Gravity	\$ 85.00	ea
33	Double Ring Infiltrometer Test	\$ 495.00	ea
34	Relative Density Test	\$ 104.50	ea
35	Triaxial Compression Test (CU)	\$ 475.00	ea
36	Unconfined Compression Tests	\$ 91.00	ea
37	Undisturbed Thin-Walled Tube Sampling	123.00	ea
38	Unit Weight	\$ 51.50	ea
39	Truck Mounted Equipment Mobilization	\$ 280.00	ea
40	ATV/Mud Bug Mobilization	\$ 350.00	ea
41	Track/Bombardier Mobilization	\$ 10,000.00	ea
42	Amphibious Mobilization	\$ 10,000.00	ea

Revised 1/30/08
MM/ej

Asphaltic Concrete Inspection Services

#	Item	Price per Unit	Unit
1	Asphaltic Concrete Paving Plant Inspection	72.05	hour
2	Asphaltic Concrete Extraction & Hubbard-Field Stability (FOB Lab)	275.00	set
3	Asphaltic Concrete Extraction Gradation	\$ 150.00	set
4	Asphaltic Concrete Extraction/Gradation & Marshall Stability (FOB Lab)	\$ 275.00	set
5	Asphalt Marshall Stability	\$ 125.00	set
6	Asphaltic Concrete (Superpave) Paving Design Mix, Stability Test, Job Mix Formula, Aggregate Test and Trail Batches	\$ 3,000.00	ea
7	Hubbard-Field Stability	\$ 200.00	ea
8	Marshall Stability (including void analysis & family of curves)	\$ 600.00	ea
9	Marshall Stability (all F.A.A. requirements)	\$ 125.00	ea
10	Modified Marshall Stability (for use with emulsified asphalt's)	\$ 150.00	ea
11	Coring Pavement for Density and/or Thickness	\$ 53.98	hour
12	Asphalt Core Density (core provided by others)	\$ 26.00	ea

Concrete Testing

	Concrete Aggregate Tests (FOB Lab)	Price per Unit	Unit
1	Sieve Analysis, Fine or Coarse	\$ 55.00	ea.
2	Absorption	\$ 50.00	ea.
3	Specific Gravity	\$ 55.00	ea.
4	Unit Weight	\$ 50.00	ea.
5	Material Finer than No. 200 Sieve	\$ 28.50	ea.
6	Organic (Color metric ASTM C-40)	\$ 50.00	ea.
7	Salt Content	\$ 50.00	ea.
8	Los Angeles Abrasion	\$ 325.00	ea.
9	Soundness (5 cycle sodium sulfate)	\$ 75.00	sieve size
	(5 cycle magnesium sulfate)	\$ 80.00	sieve size
10	Masonry Mortar Strength Comparative, Sand or Water	\$ 150.00	set
	Concrete Beams		
11	Flexural Strength, Making & Testing (3 Tests per set)	\$ 200.00	set
12	Compressive Strength, ASTM C-140, 5 Specimens	\$ 250.00	set
13	Absorption & Moisture Content, ASTM C-150, 5 Specimens	\$ 25.00	ea.
14	Compressive Strength Testing of Hollow Masonry Prisms ASTM E-477 (FOB)	\$ 300.00	set of 3
15	Compressive Strength Testing of Hollow Masonry Prisms with Grouted Cells, ASTM E-477	\$ 300.00	set of 3
16	Molding, Curing & Testing of 2" x 2" Masonry Mortar Cubes (set of 3 cubes)	\$ 90.00	set
17	Concrete Masonry Units, ASTM Test (5 Compression & 5 Absorption Tests)	\$ 330.00	set
	Concrete Coring		
18	Securing Structural or Pavement Cores, Compression Tests & Thickness Coring Site Accessible - Does not include mobilization charge, staging and/or scaffolding, (4" diameter or smaller, 6" thickness or less)	\$ 94.44	hour
19	Thickness of concrete cores (cores provided)	\$ 12.50	ea.
	Compressive Strength of Concrete Cores (cores provided by others)	\$ 20.00	ea.

EXHIBIT A

	Grout Cubes		
20	Making & Compression Tests of 2" Cubes from Job Site (set of 3)	\$ 90.00	set
	Concrete Cylinders		
21	Making & Compression Tests of 6" x 12" Cylinders (Slump Test included)	\$ 90.00	set
22	Compression Tests of 6" x 12" Cylinders	\$ 17.50	cylinder
23	Extra Slump Tests	\$ 17.50	ea.
24	Air Content Tests	\$ 30.00	ea.
	Concrete Design Mixes		
25	Concrete Design Mixes (including standard aggregate tests & one trial batch with 6 compression test cylinders)	\$ 750.00	ea.
26	Brush/Loss (for soil cement basis) ASTM Dularock & pug mix	\$ 450.00	ea.
27	Linear Shrinkage Tests of Concrete Block (ASTM 426)	\$ 350.00	set
	Concrete Ready Mix Plant or Job Inspection	\$ 53.98	hour
	Pre-Fabricated Panel Tests, ASTM or FHA	\$ 53.98	hour

FIRST AMENDMENT TO CONSULTANT SERVICES AGREEMENT (PS-1074-06/TRJ)
PROFESSIONAL GEOTECHNICAL SERVICES AND
CONSTRUCTION MATERIAL TESTING AND INSPECTION

THIS FIRST AMENDMENT is made and entered into this _____ day of _____, 20____ and is to that certain Agreement made and entered into on the 1st day of February, 2007, between **NODARSE & ASSOCIATES, INC.**, whose address is 1675 Lee Road, Winter Park, Florida 32789, hereinafter referred to as "CONSULTANT", and **SEMINOLE COUNTY**, a political subdivision of the State of Florida, whose address is Seminole County Services Building, 1101 East First Street, Sanford, Florida 32771, hereinafter referred to as "COUNTY".

W I T N E S S E T H:

WHEREAS, CONSULTANT and COUNTY entered into the above referenced Agreement on February 1, 2007 for professional geotechnical services and construction material testing and inspection; and

WHEREAS, the parties desire to amend the Agreement so as to enable both parties to continue to enjoy the mutual benefits it provides; and

WHEREAS, Section 23 of the Agreement provides that any amendments shall be valid only when expressed in writing and duly signed by the parties,

NOW, THEREFORE, in consideration of the mutual understandings and agreements contained herein, the parties agree to amend the Agreement as follows:

1. Section 5 of the Agreement is amended to read:

SECTION 5. COMPENSATION. The COUNTY agrees to compensate the CONSULTANT for the professional services called for under this Agreement on either a "Fixed Fee Basis" or on a "Time Basis Method". If a Work Order is issued under a "Time Basis Method", then CONSULTANT shall be compensated in accordance with the rate schedule attached as Exhibit "A". If a Work Order is issued for a "Fixed Fee Basis", then

the applicable Work Order Fixed Fee amount shall include any and all reimbursable expense.

2. Exhibit "A" of the Agreement is deleted and replaced by the new Exhibit "A" attached hereto.

3. Except as herein modified, all terms and conditions of the Agreement shall remain in full force and effect for the term of the Agreement, as originally set forth in said Agreement.

IN WITNESS WHEREOF, the parties hereto have executed this instrument for the purpose herein expressed.

ATTEST:

NODARSE & ASSOCIATES, INC.

, Secretary

By: _____
LEILA JAMMAL-NODARSE, President

(CORPORATE SEAL)

Date: _____

ATTEST:

BOARD OF COUNTY COMMISSIONERS
SEMINOLE COUNTY, FLORIDA

MARYANNE MORSE
Clerk to the Board of
County Commissioners of
Seminole County, Florida.

By: _____
BRENDA CAREY, Chairman

Date: _____

For the use and reliance
of Seminole County only.

As authorized for execution
by the Board of County Commissioners
at their _____, 20____
regular meeting.

Approved as to form and
legal sufficiency.

County Attorney

AEC/lpk
2/26/08

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Attachment:

Exhibit "A" - Rate Schedule

Professional & Technical Services
Hourly Rates

	Classification	Hourly Rates
1	Principal Engineer/Scientist	\$ 151.19
2	Senior Engineer/Scientist	\$ 113.92
3	Project Engineer/Scientist	\$ 104.67
4	Project Manager	\$ 84.49
5	Staff Engineer/Scientist	\$ 63.74
6	Senior Engineering Technician	\$ 54.50
7	Engineering Technician	\$ 35.18
8	CADD Technician	\$ 64.76
9	Technical Secretary	\$ 44.72

SEMINOLE COUNTY, PS-1074-06/TRJ

PROFESSIONAL GEOTECHNICAL SERVICES AND

CONSTRUCTION MATERIAL TESTING AND INSPECTION

FEE SCHEDULE

NODARSE & ASSOCIATES, INC.

Labor Category	Average Raw Hourly Rate	Fringe and Overhead %	Fringe and Overhead Amount	Loaded Hourly Rate	Profit %	Profit Amount	Billing Rate
Principal Engineer	\$52.13	162%	\$84.45	\$136.58	10.70%	\$14.61	\$151.19
Senior Engineer	\$39.28	162%	\$63.63	\$102.91	10.70%	\$11.01	\$113.92
Project Engineer	\$36.09	162%	\$58.46	\$94.55	10.70%	\$10.12	\$104.67
Project Manager	\$29.13	162%	\$47.19	\$76.32	10.70%	\$8.17	\$84.49
Staff Engineer	\$21.98	162%	\$35.60	\$57.58	10.70%	\$6.16	\$63.74
Senior Engineering Technician	\$18.79	162%	\$30.44	\$49.23	10.70%	\$5.27	\$54.50
Engineering Technician	\$12.13	162%	\$19.65	\$31.78	10.70%	\$3.40	\$35.18
CADD Tech	\$22.33	162%	\$36.17	\$58.50	10.70%	\$6.26	\$64.76
Technical Secretary	\$15.42	162%	\$24.98	\$40.40	10.70%	\$4.32	\$44.72

NOTE: We are using the capped Fringe and Overhead amount of 162%

Scope of Services
Professional Engineering Services
for Soil and Materials Testing

Price Schedule

Specific services shall include, but not limited to sampling and testing of soils, concrete, asphalt and various other constructions materials.

#	Item	Cost Per Unit
1	In-Place density tests (minimum 3 tests per trip)	\$ 25.00
2	Standard or modified proctors	\$ 90.00
3	Limerock Bearing Ratio tests (3 points)	\$ 350.00
4	Compressive strength of concrete cylinders (4 per set, does not include Technician time)	\$ 40.00
5	Compressive strength of soil-cement pills (4 per set)	\$ 80.00
6	Asphalt extraction, gradation, & Marshall stability tests	\$ 275.00
7	Core drilling & soils analysis (includes mobilization and borings)	Quoted Per Site

Steel Inspection

	Inspection	Price Per Unit
1	Inspection of Welds & Bolt Torquing	
	A) At Plant	\$54.50/Hour
	A) At Job Site	
	1. One (1) Man Inspection Crew	\$54.50/Hour
	2. Two (2) Men Inspection Crew	\$109.00/Hour
2	Reinforcing Steel Inspection	\$54.50/Hour
3	Nondestructive Testing of Steel & Connections	Quoted Per Project/Hour

Geotechnical Investigations & Soil Testing

#	Item	Price Per Unit	Unit
1	Standard Penetration Test Borings (ASTM D-1586) (minimum 50 feet per job) A) 0-50 foot depth interval B) 50-100 foot depth interval C) 100-125 foot depth interval D) 125-150 foot depth interval	 \$12.00 \$15.00 \$17.00 \$19.00	 Foot
2	Auger Borings (minimum 100 feet per job)	\$ 12.00	Foot
3	Manual Auger Borings	\$ 11.25	Foot
4	Drill Service from Floating Platform	\$ 12,000.00	Each
5	Rock Coring, 0-50'	\$ 30.00	Foot
6	Installation of Steel Casing	\$ 8.00	Foot
7	Ground Penetrating Radar (8 Hour Day)	\$ 2,000.00	Day
8	Cone Penetrometer Soundings 0-50'	\$ 9.50	Foot
9	Dilatometer Soundings (Per Each Test, minimum 15 tests per sounding)	\$ 150.00	Each Test
10	Atterberg Limits A) Liquid Limit (LL) - Plastic Limit (PL) B) Shrinkage Limit (SL)	\$80.00 \$40.00	Sample
11	California Bearing Ratio	\$ 350.00	Sample
12	Consolidation A) Consolidation with Reload	\$ 500.00	Sample
13	Corrosion Resistance (pH and R)	\$ 140.00	Sample
14	Field Density Tests (minimum 3 tests per trip)	\$ 25.00	Each
15	Florida Bearing Value (FBCV)	\$ 35.00	Sample
16	Florida Bearing Value Determination of Blend Proportions	\$ 120.00	Sample
17	Grain Size: A) Hydro Analysis B) Sieve Analysis (Wash No. 200 Sieve)	\$ 85.00 \$ 65.00	Sample Sample
18	Ground Penetrating Radar (8 Hour Day)	\$ 2,000.00	Day
19	Limerock Bearing Ratio (LBR) (3 point)	\$ 350.00	Sample
20	Limerock Bearing Ratio (LBR) (5 point)	\$ 425.00	Sample
21	Moisture Content	\$ 12.50	Sample
22	Moisture Density Test (Standard or Modified Proctor)	\$ 90.00	Sample
23	Monitor Well Installation - 2" or 4" PVC	\$ 35.00 \$ 40.00	Foot (2") Foot (4")

Geotechnical Investigations & Soil Testing

#	Item	Price Per Unit	Unit
24	Muck Probing 2 Man Crew	\$ 900.00	Day
	3 Man Crew	\$ 1,300.00	Day
25	Organic Content Determination	\$ 35.00	Sample
26	pH	\$ 30.00	Sample
27	Permeability Tests - Field (15', 2 depths) (Excluding auger borings & vertical permeability)	\$ 700.00	Each
28	Permeability Tests - Laboratory Granular Soil	\$200.00	Sample
	Cohesive Soil (K>10-8 cm/sec)	\$275.00	
29	Soil-Cement, Field Testing & Observation	\$ 35.18	Per Hour
30	Soil-Cement Laboratory Design Mixes (FOB Laboratory)	\$ 400.00	Mix
31	Soil Plate Load Test (ASTM)	N/A	N/A
32	Specific Gravity	\$ 60.00	Sample
33	Double Ring Infiltrometer Test	\$ 450.00	Hour
34	Relative Density Test	\$ 100.00	Each
35	Triaxial Compression Test (CU) (3 points)	\$750.00	Each
	Additional points	\$250.00	
36	Unconfined Compression Tests	\$ 200.00	Sample
37	Undisturbed Thin-Walled Tube Sampling	\$ 150.00	Tube
38	Unit Weight Determination	\$ 30.00	Sample
39	Truck Mounted Equipment Mobilization	\$ 350.00	Each
40	ATV/Mud Bug Mobilization	\$ 400.00	Each
41	Track/Bombardier Mobilization	\$ 1,800.00	Each
42	Amphibious Mobilization	Quoted Per Project	Each

Asphaltic Concrete Inspection Services

#	Item	Price Per Unit	Unit
1	Asphaltic Concrete Paving Plant Inspection (10 Hour Day)	\$ 545.00	Day
2	Asphaltic Concrete Extraction & Marshall-Field Stability (FOB Lab)	\$ 275.00	Sample
3	Asphaltic Concrete Extraction Gradation	\$ 145.00	Sample
4	Asphaltic Concrete Extraction/Gradation & Marshall Stability (FOB Lab)	\$ 275.00	Sample
5	Asphalt Marshall Stability	\$ 130.00	Sample
6	Asphaltic Concrete Paving Design Mix, Stability Test, Job Mix Formula, Aggregate Test and Trail Batches	Quoted Per Project	Each
7	Hubbard-Field Stability	N/A	N/A
8	Marshall Stability (including void analysis & family of curves)	\$ 350.00	Mix
9	Marshall Stability (all FAA requirements)	\$ 350.00	Mix
10	Modified Marshall Stability (for use with emulsified asphalt's)	\$ 170.00	Each
11	Coring Pavement for Density and/or Thickness	\$ 175.00	Mobilization
		\$ 35.18	Hour
12	Asphalt Core Density (core provided by others)	\$ 28.00	Sample

Concrete Testing

	Concrete Aggregate Tests (FOB Lab)	Price Per Unit	Unit
1	Sieve Analysis, Fine or Coarse	\$ 64.00	Sample
2	Absorption	\$ 67.00	Sample
3	Specific Gravity	\$ 67.00	Sample
4	Unit Weight	\$ 45.00	Sample
5	Material Finer than No. 200 Sieve	\$ 35.00	Sample
6	Organic (Color metric ASTM C-40)	\$ 35.00	Sample
7	Salt Content	\$ 35.00	Sample
8	Los Angeles Abrasion	\$ 300.00	Sample
9	Soundness (5 cycle sodium sulfate) (5 cycle magnesium sulfate)	\$275.00 \$400.00	Sample
10	Masonry Mortar Strength Comparative, Sand or Water	\$ 95.00	Sample
	Concrete Beams		
11	Flexural Strength, Making & Testing (3 Tests per set)	\$ 125.00	Set
12	Compressive Strength, ASTM C-140, 5 Specimens	\$ 55.00	Each
13	Absorption & Moisture Content, ASTM C-150, 5 Specimens	\$ 35.00	Each
14	Compressive Strength Testing of Hollow Masonry Prisms ASTM E-477 (FOB)	\$ 55.00	Prism
15	Compressive Strength Testing of Hollow Masonry Prisms with Grouted Cells, ASTM E-477	\$ 70.00	Prism
16	Molding, Curing & Testing of 2" x 2" Masonry Mortar Cubes (set of 3 cubes)	\$ 95.00	Set
17	Concrete Masonry Units, ASTM Test (5 Compression & 5 Absorption Tests)	\$ 400.00	Set
	Concrete Coring		
18	Securing Structural or Pavement Cores, Compression Tests & Thickness	\$ 175.00 \$ 35.18	Mobilization Hour
19	Coring Site Accessible - Does not include mobilization charge, staging and/or scaffolding, (4" diameter or smaller, 6" thickness or less) Compressive Strength of Concrete Cores (cores provided by others)	\$ 50.00	Each
	Grout Cubes		
20	Making & Compression Tests of 2" Cubes from Job Site (set of 3)	\$ 95.00	Set

	Concrete Cylinders	Price Per Unit	Unit
21	Making & Compression Tests of 6" x 12" Cylinders (includes temp, slump, curing) (Set of 4 Cylinders) (Slump Test included and up to one hour of technician time)	\$ 95.00	Set
22	Compression Tests of 6" x 12" or 4" x 8" Cylinders (Up to 4 per set)	\$ 40.00	Set
23	Extra Slump Tests	\$ 17.50	Each
24	Air Content Tests	\$ 22.50	Each
	Concrete Design Mixes		
25	Concrete Design Mixes (including standard aggregate tests & one trial batch with 6 compression test cylinders)	\$ 575.00	Mix
26	Brush/Loss (for soil cement basis) ASTM Durarock & pug mix	\$ 850.00	Mix
27	Linear Shrinkage Tests of Concrete Block (ASTM 426)	\$ 575.00	Set
	Concrete Ready Mix Plant or Job Inspection	\$ 54.50	Hour
	Pre-Fabricated Panel Tests, ASTM or FHA	Quoted Per Project	Hour



Seminole County Continuing Services Contract

Geotechnical Investigations & Soil Testing

No	Item	Price Per Unit	Unit
39	Truck Mounted Equipment Mobilization	\$350.00	Each
40	ATV/Mud Bug Mobilization	\$400.00	Each
41	Track/Bombardier Mobilization	\$1,800.00	Each
42	Amphibious Mobilization	Quoted per project	Each

**FIRST AMENDMENT TO CONSULTANT SERVICES AGREEMENT (PS-1074-06/TRJ)
PROFESSIONAL GEOTECHNICAL SERVICES AND
CONSTRUCTION MATERIAL TESTING AND INSPECTION**

THIS FIRST AMENDMENT is made and entered into this _____ day of _____, 20____ and is to that certain Agreement made and entered into on the 1st day of February, 2007, between **PROFESSIONAL SERVICE INDUSTRIES, INC.**, whose address is 1748 33rd Street, Orlando, Florida 32839, hereinafter referred to as "CONSULTANT", and **SEMINOLE COUNTY**, a political subdivision of the State of Florida, whose address is Seminole County Services Building, 1101 East First Street, Sanford, Florida 32771, hereinafter referred to as "COUNTY".

W I T N E S S E T H:

WHEREAS, CONSULTANT and COUNTY entered into the above referenced Agreement on February 1, 2007 for professional geotechnical services and construction material testing and inspection; and

WHEREAS, the parties desire to amend the Agreement so as to enable both parties to continue to enjoy the mutual benefits it provides; and

WHEREAS, Section 23 of the Agreement provides that any amendments shall be valid only when expressed in writing and duly signed by the parties,

NOW, THEREFORE, in consideration of the mutual understandings and agreements contained herein, the parties agree to amend the Agreement as follows:

1. Section 5 of the Agreement is amended to read:

SECTION 5. COMPENSATION. The COUNTY agrees to compensate the CONSULTANT for the professional services called for under this Agreement on either a "Fixed Fee Basis" or on a "Time Basis Method". If a Work Order is issued under a "Time Basis Method", then CONSULTANT shall be compensated in accordance with the rate schedule attached as Exhibit "A". If a Work Order is issued for a "Fixed Fee Basis", then

the applicable Work Order Fixed Fee amount shall include any and all reimbursable expense.

2. Exhibit "A" of the Agreement is deleted and replaced by the new Exhibit "A" attached hereto.

3. Except as herein modified, all terms and conditions of the Agreement shall remain in full force and effect for the term of the Agreement, as originally set forth in said Agreement.

IN WITNESS WHEREOF, the parties hereto have executed this instrument for the purpose herein expressed.

ATTEST:

PROFESSIONAL SERVICE INDUSTRIES, INC.

, Secretary

By: _____
JEFFREY H.M. BEGOVICH
Vice-President

(CORPORATE SEAL)

Date: _____

ATTEST:

BOARD OF COUNTY COMMISSIONERS
SEMINOLE COUNTY, FLORIDA

MARYANNE MORSE
Clerk to the Board of
County Commissioners of
Seminole County, Florida.

By: _____
BRENDA CAREY, Chairman

Date: _____

For the use and reliance
of Seminole County only.

As authorized for execution
by the Board of County Commissioners
at their _____, 20____
regular meeting.

Approved as to form and
legal sufficiency.

County Attorney

AEC/lpk

2/26/08

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Attachment:

Exhibit "A" - Rate Schedule

Professional & Technical Services
Hourly Rates

	Classification	Hourly Rates
1	Principal Engineer/Scientist	\$ 120.00
2	Registered Senior Engineer/Scientist	\$ 105.50
3	Project Engineer/Scientist II	\$ 97.00
4	Project Engineer/Scientist I	\$ 97.00
5	Staff Engineer/Scientist	\$ 87.00
6	Engineering/Scientific Associate	\$ 68.00
7	Senior Engineering Technician	\$ 46.25
8	Engineering Technician	\$ 43.50
9	Draftsman	\$ 43.50
10	Technical Secretary	\$ 39.00

FEE SCHEDULE

Labor Category	Raw Hourly Rate	Fringe and Overhead %	Fringe and Overhead Amount	Loaded Hourly Rate	Profit %	Profit Amount	Billing Rate
Principal Engineer	\$41.50	61.79%	\$67.14	\$108.64	10.5%	\$11.41	\$120.05
Registered Senior Engineer	\$36.50	61.79%	\$59.05	\$95.55	10.5%	\$10.03	\$105.58
Project Engineer	\$33.50	61.79%	\$54.20	\$87.70	10.5%	\$9.21	\$96.91
Staff Engineer	\$30.00	61.79%	\$48.54	\$78.54	10.5%	\$8.25	\$86.79
Engineering Associate	\$23.50	61.79%	\$38.02	\$61.52	10.5%	\$6.46	\$67.98
Senior Engineering Technician	\$16.00	61.79%	\$25.89	\$41.89	10.5%	\$4.40	\$46.29
Engineering Technician	\$15.00	61.79%	\$24.27	\$39.27	10.5%	\$4.21	\$43.39
Draftsman	\$15.00	61.79%	\$24.27	\$39.27	10.5%	\$4.21	\$43.39
Technical Secretary	\$13.50	61.79%	\$21.84	\$35.34	10.5%	\$3.71	\$39.05

Note: *Rounded all billing rates up or down to match those listed under the Professional & Technical Services Hourly Rates.*

Scope of Services
Professional Engineering Services
for Soil and Materials Testing

Price Schedule

Specific services shall include, but not limited to sampling and testing of soils, concrete, asphalt and various other constructions materials.

#	Item	Cost per Unit
1	In-Place density tests	\$ 25.00
2	Standard or modified proctors	\$ 85.00
3	Limerock Bearing Ratio tests (3 points)	\$ 290.00
4	Compressive strength of concrete cylinders (4 per set)	\$ 85.00
5	Compressive strength of soil-cement pills (4 per set)	\$ 68.00
6	Asphalt extraction, gradation, & Marshall stability tests	\$ 225.00
7	Core drilling & soils analysis	\$ 200.00

Steel Inspection

	Inspection	Price per Unit
1	Inspection of Welds & Bolt Torquing	
	A) At Plant	\$ 66.00/hour
	B) At Job Site	
	1. One (1) Man Inspection Crew	\$ 66.00/hour
	2. Two (2) Men Inspection Crew	\$ 132.00/hour
2	Reinforcing Steel Inspection	\$ 48.00
3	Nondestructive Testing of Steel & Connections	\$ 80.00

Asphaltic Concrete Inspection Services

#	Item	Price per Unit	Unit
1	Asphaltic Concrete Paving Plant Inspection	\$54.00	hour
2	Asphaltic Concrete Extraction & Hubbard-Field Stability (FOB Lab)	\$300.00	each
3	Asphaltic Concrete Extraction Gradation	\$120.00	each
4	Asphaltic Concrete Extraction/Gradation & Marshall Stability (FOB Lab)	\$210.00	each
5	Asphalt Marshall Stability	\$106.00	each
6	Asphaltic Concrete Paving Design Mix, Stability Test, Job Mix Formula, Aggregate Test and Trail Batches	\$2,600.00	each
7	Hubbard-Field Stability	\$180.00	each
8	Marshall Stability (including void analysis & family of curves)	\$210.00	each
9	Marshall Stability (all F.A.A. requirements)	\$210.00	each
10	Modified Marshall Stability (for use with emulsified asphalt's)	\$210.00	each
11	Coring Pavement for Density and/or Thickness	\$26.00	each
12	Asphalt Core Density (core provided by others)	\$15.00	each

Geotechnical Investigations & Soil Testing

#	Item	Price per Unit	Unit
1	Standard Penetration Test Borings (ASTM D-1586) (minimum 50 feet per job)		
	A) 0-50 foot depth interval	\$9.00	
	B) 50-100 foot depth interval	\$10.50	
	C) 100-125 foot depth interval	\$28.00	
	D) 125-150 foot depth interval	\$28.00	lineal foot
2	Auger Borings (minimum 100 feet per job)	\$9.00	lineal foot
3	Manual Auger Borings	\$38.00	hour
4	Drill Service from Floating Platform	negotiated	
5	Rock Coring	\$65.00	lineal foot
6	Installation of Steel Casing (temporary)	\$6.00	foot
7	Ground Penetrating Radar	\$2,000.00	day
8	Cone Penetrometer Soundings	\$15.00	foot
9	Dilatometer Soundings	\$120.00	each
10	Atterberg Limits		
	A) Liquid Limit (LL) - Plastic Limit (PL)	\$75.00	
	B) Shrinkage Limit (SL)	\$75.00	each
11	California Bearing Ratio	\$290.00	each
12	Consolidation		
	A) Consolidation with Reload	\$600.00	each
13	Corrosion Resistance (pH and R)	\$100.00	each
14	Field Density Tests (minimum 3 tests per trip)	\$25.00	each
15	Florida Bearing Value (FBCV)	\$30.00	each
16	Florida Bearing Value Determination of Blend Proportions	\$50.00	each
17	Grain Size:		
	A) Hydro Analysis	\$135.00	
	B) Sieve Analysis (Wash No. 200 Sieve)	\$40.00	each
18	Ground Penetrating Radar	\$2,000.00	day
19	Limerock Bearing Ratio (LBR) (3 point)	\$290.00	each
20	Limerock Bearing Ratio (LBR) (5 point)	\$300.00	each
21	Moisture Content	\$15.00	each
22	Moisture Density Test (Standard or Modified Proctor)	\$85.00	each
23	Monitor Well Installation - 2" or 4" PVC	\$35.00	foot

24	Muck Probing: 2 Man Crew 3 Man Crew	\$600.00 \$900.00	day
25	Organic Content Determination	\$40.00	each
26	pH	\$42.00	each
27	Permeability Tests - Field (15', 2 depths) (Excluding auger borings & vertical permeability)	\$350.00	each
28	Permeability Tests - Laboratory Granular Soil Cohesive Soil	\$160.00 \$320.00	each
29	Soil-Cement, Field Testing & Observation	\$48.00	hour
30	Soil-Cement Laboratory Design Mixes (FOB Laboratory) (short cut method)	\$1,500.00 \$3,000.00	each w/freeze thaw
31	Soil Plate Load Test (ASTM)	\$1,100.00	each
32	Specific Gravity	\$60.00	each
33	Double Ring Infiltration Test	\$450.00	each
34	Relative Density Test	\$140.00	each
35	Triaxial Compression Test (CU) (3 points) Additional points	\$350.00	per point
36	Unconfined Compression Tests	\$85.00	each
37	Undisturbed Thin-Walled Tube Sampling	\$130.00	0'-50' each
38	Unit Weight	\$60.00	each
39	Turck Mounted Equipment Mobilization	\$250.00	each
40	ATV/Mud Bug Mobilization	\$450.00	each
41	Track/Bombardier Mobilization	(quoted on a per project basis)	
42	Amphibious Mobilization	(quoted on a per project basis)	

Concrete Testing

	Concrete Aggregate Tests (FOB Lab)	Price per Unit	Unit
1	Sieve Analysis, Fine or Coarse	\$ 50.00	each
2	Absorption	\$ 15.00	each
3	Specific Gravity	\$ 60.00	each
4	Unit Weight	\$ 35.00	each
5	Material Finer than No. 200 Sieve	\$ 35.00	each
6	Organic (Color metric ASTM C-40)	\$ 45.00	each
7	Salt Content	\$ 100.00	each
8	Los Angeles Abrasion	\$ 300.00	each
9	Soundness (5 cycle sodium sulfate) (5 cycle magnesium sulfate)	\$ 110.00	each
10	Masonry Mortar Strength Comparative, Sand or Water	\$ 1,000.00	each
	Concrete Beams		
11	Flexural Strength, Making & Testing (3 Tests per set)	\$ 150.00	set
12	Compressive Strength, ASTM C-140, 5 Specimens	\$ 250.00	set
13	Absorption & Moisture Content, ASTM C-150, 5 Specimens	\$ 75.00	set
14	Compressive Strength Testing of Hollow Masonry Prisms ASTM E-477 (FOB)	\$ 75.00	each
15	Compressive Strength Testing of Hollow Masonry Prisms with Grouted Cells, ASTM E-477	\$ 110.00	each
16	Molding, Curing & Testing of 2" x 2" Masonry Mortar Cubes (set of 3 cubes)	\$ 85.00	set
17	Concrete Masonry Units, ASTM Test (5 Compression & 5 Absorption Tests)	\$ 300.00	set
	Concrete Coring		
18	Securing Structural or Pavement Cores, Compression Tests & Thickness	\$ 90.00	core
19	Coring Site Accessible - Does not include mobilization charge, staging and/or scaffolding, (4" diameter or smaller, 6" thickness or less) Compressive Strength of Concrete Cores (cores provided by others)	\$ 65.00	core
	Grout Cubes		
20	Making & Compression Tests of 2" Cubes from Job Site (set of 3)	\$ 85.00	set

	Concrete Cylinders		
21	Making & Compression Tests of 6" x 12" Cylinders (Slump Test included)	\$ 85.00	set of 4
22	Compression Tests of 6" x 12" Cylinders	\$ 22.00	each
23	Extra Slump Tests	\$ 15.00	each
24	Air Content Tests	\$ 15.00	each
	Concrete Design Mixes		
25	Concrete Design Mixes (including standard aggregate tests & one trial batch with 6 compression test cylinders)	\$ 1,900.00	each
26	Brush/Loss (for soil cement basis) ASTM Durarock & pug mix	\$ 1,400.00	each
27	Linear Shrinkage Tests of Concrete Block (ASTM 426)	\$ 700.00	each
	Concrete Ready Mix Plant or Job Inspection	\$ 66.00	hour
	Pre-Fabricated Panel Tests, ASTM or FHA	\$ 66.00	hour